



8

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/778,187B

DATE: 05/07/2002
TIME: 13:59:49

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\05072002\I778187B.raw

ENTERED

```

3 <110> APPLICANT: Baum, Peter R.
4      Fanslow III, William C
6 <120> TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM
8 <130> FILE REFERENCE: 2873-US
10 <140> CURRENT APPLICATION NUMBER: US 09/778,187B
11 <141> CURRENT FILING DATE: 2001-02-06
13 <150> PRIOR APPLICATION NUMBER: PCT/US99/17905
14 <151> PRIOR FILING DATE: 1999-08-05
16 <150> PRIOR APPLICATION NUMBER: US 60/095,672
17 <151> PRIOR FILING DATE: 1998-08-07
19 <160> NUMBER OF SEQ ID NOS: 10
21 <170> SOFTWARE: PatentIn version 3.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 1598
25 <212> TYPE: DNA
26 <213> ORGANISM: homo sapiens
28 <220> FEATURE:
29 <221> NAME/KEY: CDS
30 <222> LOCATION: (16)..(1341)
31 <223> OTHER INFORMATION:
33 <400> SEQUENCE: 1
34 gcggccgcgc ccgac atg gcg agt gta gtg ctg ccg agc gga tcc cag tgt      51
35           Met Ala Ser Val Val Leu Pro Ser Gly Ser Gln Cys
36           1          5          10
38 gcg gcg gca gcg gcg gcg gcg cct ccc ggg ctc cgg ctc cgg ctt      99
39 Ala Ala Ala Ala Ala Ala Pro Pro Gly Leu Arg Leu Arg Leu
40           15         20         25
42 ctg ctg ttg ctc ttc tcc gcc gcg gca ctg atc ccc aca ggt gat ggg      147
43 Leu Leu Leu Phe Ser Ala Ala Leu Ile Pro Thr Gly Asp Gly
44           30         35         40
46 cag aat ctg ttt acg aaa gac gtg aca gtg atc gag gga gag gtt gcg      195
47 Gln Asn Leu Phe Thr Lys Asp Val Thr Val Ile Glu Gly Glu Val Ala
48 45           50         55         60
50 acc atc agt tgc caa gtc aat aag agt gac gac tct gtg att cag cta      243
51 Thr Ile Ser Cys Gln Val Asn Lys Ser Asp Asp Ser Val Ile Gln Leu
52           65         70         75
54 ctg aat ccc aac agg cag acc att tat ttc agg gac ttc agg cct ttg      291
55 Leu Asn Pro Asn Arg Gln Thr Ile Tyr Phe Arg Asp Phe Arg Pro Leu
56           80         85         90
58 aag gac agc agg ttt cag ttg ctg aat ttt tct agc agt gaa ctc aaa      339
59 Lys Asp Ser Arg Phe Gln Leu Leu Asn Phe Ser Ser Glu Leu Lys
60           95         100        105
62 gta tca ttg aca aac gtc tca att tct gat gaa gga aga tac ttt tgc      387

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/778,187B

DATE: 05/07/2002
TIME: 13:59:49

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\05072002\I778187B.raw

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 63 | Val | Ser | Leu | Thr | Asn | Val | Ser | Ile | Ser | Asp | Glu | Gly | Arg | Tyr | Phe | Cys | |
| 64 | 110 | | | | | 115 | | | | 120 | | | | | | | |
| 66 | cag | ctc | tat | acc | gat | ccc | cca | cag | gaa | agt | tac | acc | acc | atc | aca | gtc | 435 |
| 67 | Gln | Leu | Tyr | Thr | Asp | Pro | Pro | Gln | Glu | Ser | Tyr | Thr | Thr | Ile | Thr | Val | |
| 68 | 125 | | | | | 130 | | | | 135 | | | | | | 140 | |
| 70 | ctg | gtc | cca | cca | cgt | aat | ctg | atg | atc | gat | atc | cag | aaa | gac | act | gcg | 483 |
| 71 | Leu | Val | Pro | Pro | Arg | Asn | Leu | Met | Ile | Asp | Ile | Gln | Lys | Asp | Thr | Ala | |
| 72 | | | | | | 145 | | | | 150 | | | | | | 155 | |
| 74 | gtg | gaa | ggg | gag | gag | att | gaa | gtc | aac | tgc | act | gct | atg | gcc | agc | aag | 531 |
| 75 | Val | Glu | Gly | Glu | Glu | Ile | Glu | Val | Asn | Cys | Thr | Ala | Met | Ala | Ser | Lys | |
| 76 | | | | | | 160 | | | | 165 | | | | | | 170 | |
| 78 | cca | gcc | acg | act | atc | agg | tgg | ttc | aaa | ggg | aac | aca | gag | cta | aaa | ggc | 579 |
| 79 | Pro | Ala | Thr | Thr | Ile | Arg | Trp | Phe | Lys | Gly | Asn | Thr | Glu | Leu | Lys | Gly | |
| 80 | | | | | | 175 | | | | 180 | | | | | | 185 | |
| 82 | aaa | tcg | gag | gtg | gaa | gag | tgg | tca | gac | atg | tac | act | gtg | acc | agt | cag | 627 |
| 83 | Lys | Ser | Glu | Val | Glu | Glu | Trp | Ser | Asp | Met | Tyr | Thr | Val | Thr | Ser | Gln | |
| 84 | | | | | | 190 | | | | 195 | | | | | | 200 | |
| 86 | ctg | atg | ctg | aag | gtg | cac | aag | gag | gac | gat | ggg | gtc | cca | gtg | atc | tgc | 675 |
| 87 | Leu | Met | Leu | Lys | Val | His | Lys | Glu | Asp | Asp | Gly | Val | Pro | Val | Ile | Cys | |
| 88 | | | | | | 205 | | | | 210 | | | | | | 215 | 220 |
| 90 | cag | gtg | gag | cac | cct | gcg | gtc | act | gga | aac | ctg | cag | acc | cag | cgg | tat | 723 |
| 91 | Gln | Val | Glu | His | Pro | Ala | Val | Thr | Gly | Asn | Leu | Gln | Thr | Gln | Arg | Tyr | |
| 92 | | | | | | 225 | | | | 230 | | | | | | 235 | |
| 94 | cta | gaa | gta | cag | tat | aag | cct | caa | gtg | cac | att | cag | atg | act | tat | cct | 771 |
| 95 | Leu | Glu | Val | Gln | Tyr | Lys | Pro | Gln | Val | His | Ile | Gln | Met | Thr | Tyr | Pro | |
| 96 | | | | | | 240 | | | | 245 | | | | | | 250 | |
| 98 | cta | caa | ggc | tta | acc | cgg | gaa | ggg | gac | gcf | ctt | gag | tta | aca | tgt | gaa | 819 |
| 99 | Leu | Gln | Gly | Leu | Thr | Arg | Glu | Gly | Asp | Ala | Leu | Glu | Leu | Thr | Cys | Glu | |
| 100 | | | | | | 255 | | | | 260 | | | | | | 265 | |
| 102 | gcc | atc | ggg | aag | ccc | cag | cct | gtg | atg | gta | act | tgg | gtg | aga | gtc | gat | 867 |
| 103 | Ala | Ile | Gly | Lys | Pro | Gln | Pro | Val | Met | Val | Thr | Trp | Val | Arg | Val | Asp | |
| 104 | | | | | | 270 | | | | 275 | | | | | | 280 | |
| 106 | gat | gaa | atg | cct | caa | cac | gcc | gta | ctg | tct | ggg | ccc | aac | ctg | tcc | atc | 915 |
| 107 | Asp | Glu | Met | Pro | Gln | His | Ala | Val | Leu | Ser | Gly | Pro | Asn | Leu | Phe | Ile | |
| 108 | | | | | | 285 | | | | 290 | | | | | | 295 | 300 |
| 110 | aat | aac | cta | aaa | aca | gat | aat | ggt | aca | tac | cgc | tgt | gaa | gct | tca | | 963 |
| 111 | Asn | Asn | Leu | Asn | Lys | Thr | Asp | Asn | Gly | Thr | Tyr | Arg | Cys | Glu | Ala | Ser | |
| 112 | | | | | | 305 | | | | 310 | | | | | | 315 | |
| 114 | aac | ata | gtg | ggg | aaa | gct | cac | tcg | gat | tat | atg | ctg | tat | gta | tac | gat | 1011 |
| 115 | Asn | Ile | Val | Gly | Lys | Ala | His | Ser | Asp | Tyr | Met | Leu | Tyr | Val | Tyr | Asp | |
| 116 | | | | | | 320 | | | | 325 | | | | | | 330 | |
| 118 | ccc | ccc | aca | act | atc | cct | cct | ccc | aca | aca | acc | acc | acc | acc | acc | acc | 1059 |
| 119 | Pro | Pro | Thr | Thr | Ile | Pro | Pro | Pro | Thr | |
| 120 | | | | | | 335 | | | | 340 | | | | | | 345 | |
| 122 | acc | acc | acc | acc | acc | atc | ctt | acc | atc | atc | aca | gat | tcc | cga | gca | ggt | 1107 |
| 123 | Thr | Thr | Thr | Thr | Ile | Leu | Thr | Ile | Ile | Thr | Asp | Ser | Arg | Ala | Gly | | |
| 124 | | | | | | 350 | | | | 355 | | | | | | 360 | |
| 126 | gaa | gaa | ggc | tcg | atc | agg | gca | gtg | gat | cat | gcc | gtg | atc | ggt | ggc | gtc | 1155 |
| 127 | Glu | Glu | Gly | Ser | Ile | Arg | Ala | Val | Asp | His | Ala | Val | Ile | Gly | Gly | Val | |

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/778,187B

DATE: 05/07/2002
TIME: 13:59:49

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\05072002\I778187B.raw

| | | | | | | | | | | | | | | | | | |
|-----|-------------|-------------|--------------|-------------|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 128 | 365 | 370 | 375 | 380 | | | | | | | | | | | | | |
| 130 | gtg | gct | gtg | gtg | ttc | gcc | atg | ctg | tgc | ttg | ctc | atc | att | ctg | ggg | 1203 | |
| 131 | Val | Ala | Val | Val | Val | Phe | Ala | Met | Leu | Cys | Leu | Leu | Ile | Ile | Leu | Gly | |
| 132 | | | | | | | | 385 | | 390 | | | | 395 | | | |
| 134 | cgc | tat | ttt | gcc | aga | cat | aaa | ggt | aca | tac | ttc | act | cat | gaa | gcc | aaa | 1251 |
| 135 | Arg | Tyr | Phe | Ala | Arg | His | Lys | Gly | Thr | Tyr | Phe | Thr | His | Glu | Ala | Lys | |
| 136 | | | | | | | | 400 | | 405 | | | | 410 | | | |
| 138 | gga | gcc | gat | gac | gca | gca | gac | aca | gct | ata | atc | aat | gca | gaa | | 1299 | |
| 139 | Gly | Ala | Asp | Asp | Ala | Ala | Asp | Ala | Asp | Thr | Ala | Ile | Ile | Asn | Ala | Glu | |
| 140 | | | | | | | | 415 | | 420 | | | | 425 | | | |
| 142 | gga | gga | cag | aac | aac | tcc | gaa | gaa | aag | aaa | gag | tac | ttc | atc | | 1341 | |
| 143 | Gly | Gly | Gln | Asn | Asn | Ser | Glu | Glu | Lys | Lys | Glu | Tyr | Phe | Ile | | | |
| 144 | | | | | | | | 430 | | 435 | | | | 440 | | | |
| 146 | tagatcagcc | tttttgttc | aatgaggtgt | ccaaactggcc | ctathtagat | gataaagaga | | | | | | | | | | 1401 | |
| 148 | cagtatatt | ggaaacttgcg | agaaaattcg | gtgtttttt | atgaatgggt | ggaaagggtgt | | | | | | | | | | 1461 | |
| 150 | gagactggga | aggcttggga | tttgctgtgt | aaaaaaaaa | aaaaaaatgtt | ctttggaaag | | | | | | | | | | 1521 | |
| 152 | aaaaaaagcgg | ccgctttctt | attctatttc | aacattcagc | ttaatcataa | tcctaaaatc | | | | | | | | | | 1581 | |
| 154 | atacatgcta | tttccat | | | | | | | | | | | | | | 1598 | |
| 157 | <210> | SEQ ID NO: | 2 | | | | | | | | | | | | | | |
| 158 | <211> | LENGTH: | 442 | | | | | | | | | | | | | | |
| 159 | <212> | TYPE: | PRT | | | | | | | | | | | | | | |
| 160 | <213> | ORGANISM: | homo sapiens | | | | | | | | | | | | | | |
| 162 | <400> | SEQUENCE: | 2 | | | | | | | | | | | | | | |
| 164 | Met | Ala | Ser | Val | Val | Leu | Pro | Ser | Gly | Ser | Gln | Cys | Ala | Ala | Ala | | |
| 165 | 1 | | | | | 5 | | | | 10 | | | | 15 | | | |
| 167 | Ala | Ala | Ala | Ala | Pro | Pro | Gly | Leu | Arg | Leu | Arg | Leu | Leu | Leu | Leu | | |
| 168 | | | | | | 20 | | | | 25 | | | | 30 | | | |
| 170 | Phe | Ser | Ala | Ala | Ala | Leu | Ile | Pro | Thr | Gly | Asp | Gly | Gln | Asn | Leu | Phe | |
| 171 | | | | | | | 35 | | 40 | | | | 45 | | | | |
| 173 | Thr | Lys | Asp | Val | Thr | Val | Ile | Glu | Gly | Glu | Val | Ala | Thr | Ile | Ser | Cys | |
| 174 | | | | | | | 50 | | 55 | | | 60 | | | | | |
| 176 | Gln | Val | Asn | Lys | Ser | Asp | Asp | Ser | Val | Ile | Gln | Leu | Leu | Asn | Pro | Asn | |
| 177 | 65 | | | | | | 70 | | | 75 | | | | 80 | | | |
| 179 | Arg | Gln | Thr | Ile | Tyr | Phe | Arg | Asp | Phe | Arg | Pro | Leu | Lys | Asp | Ser | Arg | |
| 180 | | | | | | | 85 | | 90 | | | | 95 | | | | |
| 182 | Phe | Gln | Leu | Leu | Asn | Phe | Ser | Ser | Ser | Glu | Leu | Lys | Val | Ser | Leu | Thr | |
| 183 | | | | | | | 100 | | 105 | | | | 110 | | | | |
| 185 | Asn | Val | Ser | Ile | Ser | Asp | Glu | Gly | Arg | Tyr | Phe | Cys | Gln | Leu | Tyr | Thr | |
| 186 | | | | | | | 115 | | 120 | | | | 125 | | | | |
| 188 | Asp | Pro | Pro | Gln | Glu | Ser | Tyr | Thr | Thr | Ile | Thr | Val | Leu | Val | Pro | Pro | |
| 189 | | | | | | | 130 | | 135 | | | | 140 | | | | |
| 191 | Arg | Asn | Leu | Met | Ile | Asp | Ile | Gln | Lys | Asp | Thr | Ala | Val | Glu | Gly | Glu | |
| 192 | 145 | | | | | | 145 | | 150 | | | 155 | | | 160 | | |
| 194 | Glu | Ile | Glu | Val | Asn | Cys | Thr | Ala | Met | Ala | Ser | Lys | Pro | Ala | Thr | Thr | |
| 195 | | | | | | | 165 | | | 170 | | | 175 | | | | |
| 197 | Ile | Arg | Trp | Phe | Lys | Gly | Asn | Thr | Glu | Leu | Lys | Gly | Lys | Ser | Glu | Val | |
| 198 | | | | | | | 180 | | 185 | | | | 190 | | | | |
| 200 | Glu | Glu | Trp | Ser | Asp | Met | Tyr | Thr | Val | Thr | Ser | Gln | Leu | Met | Leu | Lys | |
| 201 | | | | | | | 195 | | 200 | | | | 205 | | | | |

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/778,187B

DATE: 05/07/2002
TIME: 13:59:49

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\05072002\I778187B.raw

| | | | | | | | | | | | | | | | | |
|-----|-------|--------------------|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 203 | Val | His | Lys | Glu | Asp | Asp | Gly | Val | Pro | Val | Ile | Cys | Gln | Val | Glu | His |
| 204 | 210 | | | 215 | | | | | | | | 220 | | | | |
| 206 | Pro | Ala | Val | Thr | Gly | Asn | Leu | Gln | Thr | Gln | Arg | Tyr | Leu | Glu | Val | Gln |
| 207 | 225 | | | 230 | | | | | | | 235 | | | | 240 | |
| 209 | Tyr | Lys | Pro | Gln | Val | His | Ile | Gln | Met | Thr | Tyr | Pro | Leu | Gln | Gly | Leu |
| 210 | | | | | 245 | | | | 250 | | | | 255 | | | |
| 212 | Thr | Arg | Glu | Gly | Asp | Ala | Leu | Glu | Leu | Thr | Cys | Glu | Ala | Ile | Gly | Lys |
| 213 | | | | | 260 | | | | 265 | | | | 270 | | | |
| 215 | Pro | Gln | Pro | Val | Met | Val | Thr | Trp | Val | Arg | Val | Asp | Asp | Glu | Met | Pro |
| 216 | | | | | 275 | | | 280 | | | | 285 | | | | |
| 218 | Gln | His | Ala | Val | Leu | Ser | Gly | Pro | Asn | Leu | Phe | Ile | Asn | Asn | Leu | Asn |
| 219 | | | | | 290 | | | 295 | | | | 300 | | | | |
| 221 | Lys | Thr | Asp | Asn | Gly | Thr | Tyr | Arg | Cys | Glu | Ala | Ser | Asn | Ile | Val | Gly |
| 222 | 305 | | | | 310 | | | | 315 | | | | 320 | | | |
| 224 | Lys | Ala | His | Ser | Asp | Tyr | Met | Leu | Tyr | Val | Tyr | Asp | Pro | Pro | Thr | Thr |
| 225 | | | | | 325 | | | | 330 | | | | 335 | | | |
| 227 | Ile | Pro | Pro | Pro | Thr |
| 228 | | | | | 340 | | | | 345 | | | | 350 | | | |
| 230 | Thr | Ile | Leu | Thr | Ile | Ile | Thr | Asp | Ser | Arg | Ala | Gly | Glu | Gly | Ser | |
| 231 | | | | | 355 | | | 360 | | | | 365 | | | | |
| 233 | Ile | Arg | Ala | Val | Asp | His | Ala | Val | Ile | Gly | Gly | Val | Val | Ala | Val | Val |
| 234 | | | | | 370 | | | 375 | | | | 380 | | | | |
| 236 | Val | Phe | Ala | Met | Leu | Cys | Leu | Leu | Ile | Ile | Leu | Gly | Arg | Tyr | Phe | Ala |
| 237 | 385 | | | | 390 | | | | 395 | | | | 400 | | | |
| 239 | Arg | His | Lys | Gly | Thr | Tyr | Phe | Thr | His | Glu | Ala | Lys | Gly | Ala | Asp | Asp |
| 240 | | | | | 405 | | | | 410 | | | | 415 | | | |
| 242 | Ala | Ala | Asp | Ala | Asp | Thr | Ala | Ile | Ile | Asn | Ala | Glu | Gly | Gly | Gln | Asn |
| 243 | | | | | 420 | | | | 425 | | | | 430 | | | |
| 245 | Asn | Ser | Glu | Glu | Lys | Lys | Glu | Tyr | Phe | Ile | | | | | | |
| 246 | | | | | 435 | | | 440 | | | | | | | | |
| 248 | <210> | SEQ | ID | NO: | 3 | | | | | | | | | | | |
| 249 | <211> | LENGTH: | 1935 | | | | | | | | | | | | | |
| 250 | <212> | TYPE: | DNA | | | | | | | | | | | | | |
| 251 | <213> | ORGANISM: | mus musculus | | | | | | | | | | | | | |
| 253 | <220> | FEATURE: | | | | | | | | | | | | | | |
| 254 | <221> | NAME/KEY: | CDS | | | | | | | | | | | | | |
| 255 | <222> | LOCATION: | (2)..(1270) | | | | | | | | | | | | | |
| 256 | <223> | OTHER INFORMATION: | | | | | | | | | | | | | | |
| 258 | <400> | SEQUENCE: | 3 | | | | | | | | | | | | | |
| 259 | g | gcg | gcg | cct | cca | ggg | ctc | cg | ctc | ctc | ctg | ctg | ttg | ctc | ctt | tcg |
| 260 | Ala | Ala | Pro | Pro | Gly | Leu | Arg | Leu | Arg | Leu | Leu | Leu | Leu | Ser | | |
| 261 | 1 | | | | 5 | | | | 10 | | | | 15 | | | |
| 263 | gcc | gcg | gca | ctg | atc | ccc | aca | gg | t | aat | ctg | ttt | act | aaa | | |
| 264 | Ala | Ala | Ala | Leu | Ile | Pro | Thr | Gly | Asp | Gly | Gln | Asn | Leu | Phe | Thr | Lys |
| 265 | | | | | 20 | | | | 25 | | | | 30 | | | |
| 267 | gac | gt | aca | gt | att | gaa | gga | gaa | gt | gca | acc | atc | agc | tgc | cag | gtc |
| 268 | Asp | Val | Thr | Val | Ile | Glu | Gly | Glu | Val | Ala | Thr | Ile | Ser | Cys | Gln | Val |
| 269 | | | | | 35 | | | 40 | | | | 45 | | | | |
| 271 | aat | aag | agt | gac | gac | tca | gt | atc | cag | ctc | ctg | aac | ccc | aac | agg | cag |
| | | | | | | | | | | | | | | | 193 | |

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/778,187B

DATE: 05/07/2002
TIME: 13:59:49

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF3\05072002\I778187B.raw

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 272 | Asn | Lys | Ser | Asp | Asp | Ser | Val | Ile | Gln | Leu | Leu | Asn | Pro | Asn | Arg | Gln |
| 273 | 50 | | | | | | 55 | | | | | 60 | | | | |
| 275 | acc | att | tac | ttc | agg | gac | ttc | agg | cct | ttg | aag | gac | agc | agg | ttt | cag |
| 276 | Thr | Ile | Tyr | Phe | Arg | Asp | Phe | Arg | Pro | Leu | Lys | Asp | Ser | Arg | Phe | Gln |
| 277 | 65 | | | | | | 70 | | | | 75 | | | | 80 | |
| 279 | ctg | ctg | aat | ttt | tct | agc | agt | gaa | ctc | aaa | gtg | tca | ctg | acg | aat | gtc |
| 280 | Leu | Leu | Asn | Phe | Ser | Ser | Ser | Glu | Leu | Lys | Val | Ser | Leu | Thr | Asn | Val |
| 281 | | | | | | | 85 | | | | 90 | | | 95 | | |
| 283 | tca | atc | tcg | gat | gaa | ggg | aga | tac | ttc | tgc | cag | ctc | tac | acg | gac | ccc |
| 284 | Ser | Ile | Ser | Asp | Glu | Gly | Arg | Tyr | Phe | Cys | Gln | Leu | Tyr | Thr | Asp | Pro |
| 285 | | | | | | | 100 | | | | 105 | | | 110 | | |
| 287 | cca | cag | gag | agt | tac | acc | acc | atc | aca | gtc | ctg | gtt | cct | cca | cgt | aac |
| 288 | Pro | Gln | Glu | Ser | Tyr | Thr | Thr | Ile | Thr | Val | Leu | Val | Pro | Pro | Arg | Asn |
| 289 | | | | | | | 115 | | | 120 | | | 125 | | | |
| 291 | ttg | atg | atc | gat | atc | cag | aaa | gac | acg | gca | gtt | gaa | ggg | gag | gag | att |
| 292 | Leu | Met | Ile | Asp | Ile | Gln | Lys | Asp | Thr | Ala | Val | Glu | Gly | Glu | Glu | Ile |
| 293 | | | | | | | 130 | | | 135 | | | 140 | | | |
| 295 | gaa | gtc | aac | tgt | act | gcc | atg | gcc | agc | aag | cca | gcg | acg | acc | atc | agg |
| 296 | Glu | Val | Asn | Cys | Thr | Ala | Met | Ala | Ser | Lys | Pro | Ala | Thr | Thr | Ile | Arg |
| 297 | | | | | | | 145 | | | 150 | | | 155 | | | 160 |
| 299 | tgg | ttc | aaa | ggg | aac | aag | gaa | ctc | aaa | ggc | aaa | tca | gag | gtg | gag | gag |
| 300 | Trp | Phe | Lys | Gly | Asn | Lys | Glu | Leu | Lys | Gly | Lys | Ser | Glu | Val | Glu | Glu |
| 301 | | | | | | | 165 | | | 170 | | | 175 | | | |
| 303 | tgg | tcg | gac | atg | tac | act | gtg | acc | agt | cag | ctg | atg | ctg | aag | gtg | cac |
| 304 | Trp | Ser | Asp | Met | Tyr | Thr | Val | Thr | Ser | Gln | Leu | Met | Leu | Lys | Val | His |
| 305 | | | | | | | 180 | | | 185 | | | 190 | | | |
| 307 | aag | gag | gac | ggg | gtc | ccg | gtg | atc | tgc | cag | gtg | gag | cac | cct | gcg | |
| 308 | Lys | Glu | Asp | Asp | Gly | Val | Pro | Val | Ile | Cys | Gln | Val | Glu | His | Pro | Ala |
| 309 | | | | | | | 195 | | | 200 | | | 205 | | | |
| 311 | gtc | act | gga | aac | ctg | cag | acc | cag | cgc | tat | cta | gaa | gtg | cag | tat | aaa |
| 312 | Val | Thr | Gly | Asn | Leu | Gln | Thr | Gln | Arg | Tyr | Leu | Glu | Val | Gln | Tyr | Lys |
| 313 | | | | | | | 210 | | | 215 | | | 220 | | | |
| 315 | ccg | caa | gtg | cat | atc | cag | atg | act | tac | cct | ctg | caa | ggc | cta | acc | cgg |
| 316 | Pro | Gln | Val | His | Ile | Gln | Met | Thr | Tyr | Pro | Leu | Gln | Gly | Leu | Thr | Arg |
| 317 | | | | | | | 225 | | | 230 | | | 235 | | | 240 |
| 319 | gaa | ggg | gat | gca | ttt | gag | tta | acg | tgt | gaa | gcc | atc | ggg | aag | ccc | cag |
| 320 | Glu | Gly | Asp | Ala | Phe | Glu | Leu | Thr | Cys | Glu | Ala | Ile | Gly | Lys | Pro | Gln |
| 321 | | | | | | | 245 | | | 250 | | | 255 | | | |
| 323 | cct | gtg | atg | gta | act | tgg | gtg | aga | gtc | gat | gat | gaa | atg | cct | caa | cat |
| 324 | Pro | Val | Met | Val | Thr | Trp | Val | Arg | Val | Asp | Asp | Glu | Met | Pro | Gln | His |
| 325 | | | | | | | 260 | | | 265 | | | 270 | | | |
| 327 | gcc | gta | ctg | tct | ggg | cca | aac | ctg | ttc | atc | aat | acc | ata | aaa | aca | |
| 328 | Ala | Val | Leu | Ser | Gly | Pro | Asn | Leu | Phe | Ile | Asn | Asn | Leu | Asn | Lys | Thr |
| 329 | | | | | | | 275 | | | 280 | | | 285 | | | |
| 331 | gat | aac | ggt | act | tac | cgc | tgt | gag | gct | tcc | aac | ata | gtg | gga | aag | gct |
| 332 | Asp | Asn | Gly | Thr | Tyr | Arg | Cys | Glu | Ala | Ser | Asn | Ile | Val | Gly | Lys | Ala |
| 333 | | | | | | | 290 | | | 295 | | | 300 | | | |
| 335 | cat | tcg | gac | tat | atg | ctg | tat | gta | tac | gat | ccc | ccc | aca | act | atc | cct |
| 336 | His | Ser | Asp | Tyr | Met | Leu | Tyr | Val | Tyr | Asp | Pro | Pro | Thr | Thr | Ile | Pro |

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/778,187B

DATE: 05/07/2002

TIME: 13:59:50

Input Set : A:\SEQUENCE LISTING.txt

Output Set: N:\CRF3\05072002\I778187B.raw